

Title (en)
DEVICE AND METHOD FOR GENERATING A FIRST CONTROL SIGNAL AND A SECOND CONTROL SIGNAL USING LINEARISATION AND/OR BANDWIDTH EXPANSION

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ERZEUGEN EINES ERSTEN ANSTEUERSIGNALS UND EINES ZWEITEN ANSTEUERSIGNALS UNTER VERWENDUNG EINER LINEARISIERUNG UND/ODER EINER BANDBREITEN-ERWEITERUNG

Title (fr)
DISPOSITIF ET PROCÉDÉ DE GÉNÉRATION D'UN PREMIER SIGNAL DE COMMANDE ET D'UN SECOND SIGNAL DE COMMANDE PAR LINÉARISATION ET/OU PAR EXTENSION DE BANDE PASSANTE

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Application
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Abstract (en)
[origin: WO2022218822A1] The invention relates to a device for generating a first control signal (411) for a first transducer (521) and a second control signal (412) for a second transducer (522a, 522b), comprising the following features: an input interface (100) for delivering a first audio signal (111) for a first audio channel and a second audio signal for a second audio channel; a signal combiner (200) for determining a combination signal (211) from the first audio signal (111) and the second audio signal (112), which combination signal comprises an approximate difference between the first audio signal (111) and the second audio signal (112); a signal manipulator (300) for manipulating the combination signal in order to obtain the second control signal (412); and an output interface (400) for outputting or storing the first control signal (411) which is based on the first audio signal (111) or for outputting or storing the second control signal (412); wherein the signal manipulator (300) is designed to delay (302) the combination signal (211) or to amplify or attenuate (303) the combination signal (211) according to the frequency in order to counteract non-linear transducer characteristics above the frequency of the second transducer (522a, 522b), or wherein the device is designed to convert at least a portion of a spectrum of the first audio signal or of the combination signal into a frequency range above 20 kHz in order to obtain the first control signal (411) which has the frequency range above 20 kHz.

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